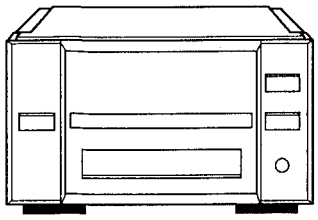

TEAC

ESOTERIC

SERVICE MANUAL

D-3

Multi D/A Converter

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Effective : July, 1994

5714069100

1 SPECIFICATIONS
仕　様

AUDIO

Number of Channels	2
Frequency Response	2~20,000Hz ± 0.3dB (44.1kHz, RCA, Narrow) 2~20,000Hz ± 0.5dB (44.1kHz, XLR, Narrow)
Signal to Noise Ratio	116dB (A weighted)
Dynamic Range	102dB (A weighted)
Harmonic Distortion	0.0008% (A weighted, 1kHz, 20-bit input) 0.0012% (A weighted, 1kHz, 16-bit input)
Channel Separation	Better than 110dB (A weighted, 1kHz)
Analog Outputs	RCA : 3.0Vrms/75Ω XLR : 6.0Vrms/150Ω
Digital Inputs	RCA : 0.5Vp-p/75Ω BNC : 0.5Vp-p/75Ω XLR : 3~10Vp-p/110Ω ST : −29~−10dBm (Wave length:825~900nm)
Input Sampling Frequency Range	
DSRLL Mode: (Digital Servo On)	Level 1/2/3 : 28~54kHz
Analog PLL Mode: (Digital Servo Off)	Level 1 (Crystal VCO) : 44.1kHz ± 150ppm Level 2 (Lithium Tantalate VCO) : 32kHz ± 1000ppm 44.1kHz ± 1000ppm 48kHz ± 1000ppm Level 3 (DSRLL) : 32~48kHz ± 12.5%
Input Bit Rate	4~20 bit
D/A Conversion	1/16 shift 20-bit 8 D/A converters + ZD-II circuit
Digital Filter	12/24 times oversampling (FIR + Sine wave running average circuit)

GENERAL

Power Requirements	100/120/230/240V AC, 50-60Hz (General Export Model) 120V AC, 60Hz (U.S.A./Canada Model) 230V AC, 50Hz (Europe Model)
Power Consumption	22watts
Dimensions (W x H x D)	225 × 134 × 485mm (8-7/8" × 5-1/4" × 19-1/8")
Weight (net)	11.5kg (25-3/8 lbs)
Standard Accessories	BNC − RCA Conversion Plug, AC Power Cord

- Specifications were determined using a sampling frequency of 44.1 kHz except as noted.
- Improvements may result in specification or feature changes without notice.

〈オーディオ〉

オーディオチャンネル数	2チャンネル
周波数特性	2~20,000Hz±0.3dB(44.1kHz, RCA) 2~20,000Hz±0.5dB(44.1kHz, XLR)
SN比	116dB(EIAJ)
ダイナミックレンジ	102dB(EIAJ)
高調波歪率	0.0008%(EIAJ):20ビット入力 0.0012%(EIAJ):16ビット入力
チャンネルセパレーション	110dB以上(EIAJ)
アナログ出力	3.0Vrms/75Ω(RCA) 6.0Vrms/150Ω(XLR)
デジタル入力	0.5Vp-p/75Ω(RCA) 0.5Vp-p/75Ω(BNC) 4.0Vp-p/110Ω(XLR) −15~−12.5dBm(OPTICAL)
入力サンプリング周波数	DSRLLモード (DIGITAL SERVO : ON) Level 1,2,3(DSRLL):28~54kHz アナログPLLモード (DIGITAL SERVO : OFF) Level 1(クリスタルVCO): 44.1kHz ± 150PPM Level 2(リチウムタンタレートVCO): 32kHz ± 1000PPM 44.1kHz ± 1000PPM 48kHz ± 1000PPM Level 3(DSRLL): 32~48kHz ± 12.5%
入力ビット数	4~20ビット(自動選択)
D/Aコンバーター	1/16シフト20ビット8DAC + ZD II サーキット
デジタルフィルター	8倍オーバーサンプリング 25ビットデジタルフィルター

〈一般〉

電源	100V AC 50-60Hz
消費電力	22W
外形寸法	225 × 134 × 485mm(W × H × D)
重量	11.5kg

〈付属品〉
- 取扱説明書（バインダー含む）
- BNC-RCA変換プラグ

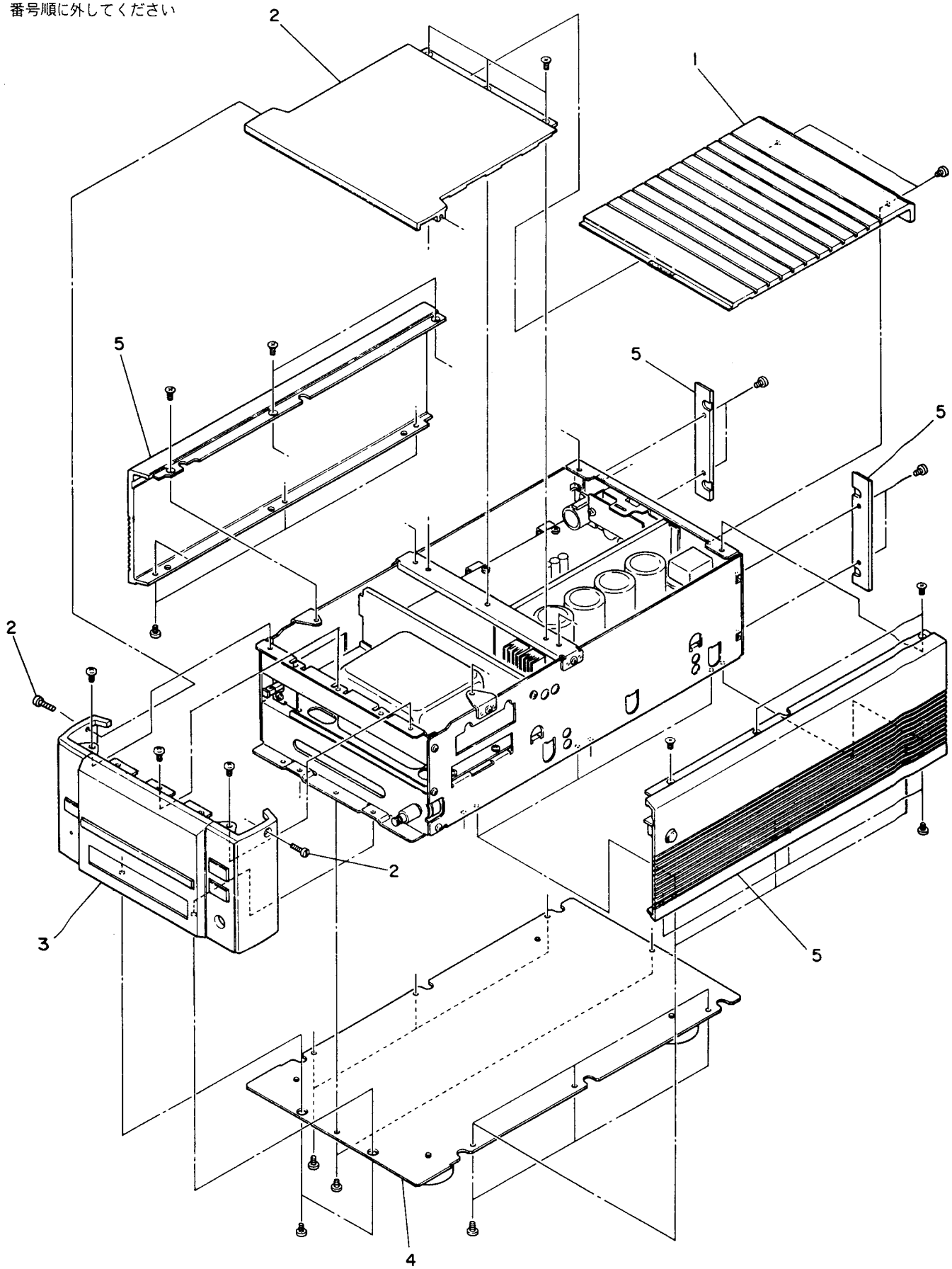
●仕様および外観は、改善のため予告なく変更することがあります。

2 CASE AND FRONT PANEL REMOVAL

外装部品の外し方

Disassemble in number-order

番号順に外してください

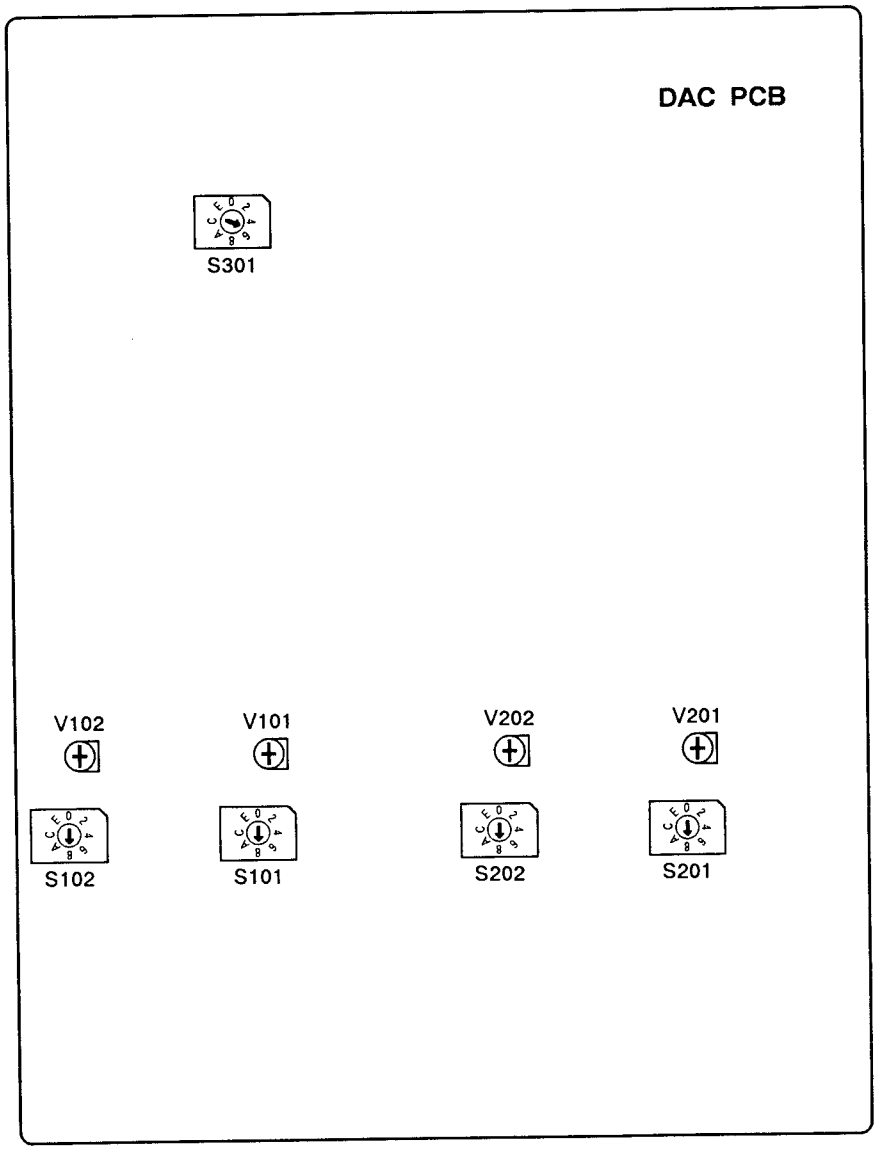


D-3

3 ADJUSTMENT AND CHECKS
調整と確認

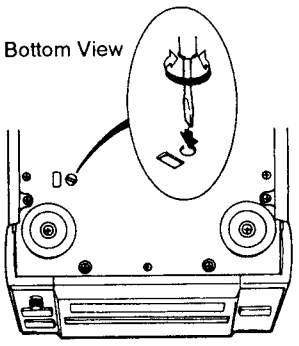
Setting
DIGITAL SERVO: OFF
DF RANGE: NARROW
Load impedance : 47k Ω (UNBALANCE)
600 Ω (BALANCED)
Test disc : MCD-111 (or YEDS-18)

設定
DIGITAL SERVO: OFF
DF RANGE: NARROW
負荷インピーダンス : 47k Ω (UNBALANCE)
600 Ω (BALANCED)
テストディスク : MCD-111 (またはYEDS-18)



VOLTAGE CONVERSION
(For U.S.A./Canada/General Export Models)

If it is necessary to change the voltage requirements of the units to match your area, use the following procedure:
1. DISCONNECT POWER LINE CORD.
2. Using a flat-bladed screwdriver, turn the selector until the desired voltage marking appears.



3-1 Distortion adjustment

1. Connect the Distortion meter to the LINE OUT (UNBAL).
2. Play the track 2 (1kHz, 0dB) of the MCD-111 with the P-2s etc., and input the digital signal to the DIGITAL IN of the D-3.
3. Set S301 on DAC PCB to No. 7 position.
4. Set the digital switch to minimum distortion point by turning S101 and S102 alternately. (Rough adjustment for L ch)
5. Adjust the variable resistor to minimum distortion point (less than 0.0015 %) by turning V101 and V102 alternately. (Fine adjustment for L ch).
6. In the same way as L ch, make the fine adjustment with V201 and V202 after making the rough adjustment with S201 and S202 so that the distortion becomes minimum. (Adjustment for R ch)
7. Set S301 to No. 5 position after completing the adjustment, then check that the distortion are within the specified values.
   Specification : 0.0018 % or less (A weight)

3-2 Output DC offset check

1. Connect the DC voltmeter to the LINE OUT (UNBAL).
2. Play the track 7 (non-signal) of the MCD-111, and check that the offset voltage are within the specified values.
   Specification : 0 ± 15mV

3-3 Output level check

1. Connect the AC voltmeter to the LINE OUT.
2. Play the track 2 (1kHz, 0dB) of the MCD-111, and check the output level.
   Specifications : 3.0 ± 0.1Vrms (UNBAL)
   4.8 ± 0.2Vrms (BAL)

3-4 Frequency response check

1. Play the track 3 – 6 (20Hz – 20kHz, 0dB) of the MCD -111, and check that the output level are within the specified values with respect to the 1kHz reference level.
   Specifications : 0 ± 0.5dB (UNBAL)
   0 ± 0.6dB (BAL)
2. Check that the output level are reduced to 2.7 ± 0.3dB at 20kHz when the DF RANGE switch is switched to "WIDE" position.

3-1 歪率調整

1. LINE OUT(UNBAL)端子に歪率計を接続する。
2. P-2sなどでMCD-111の2曲目(1kHz, 0dB)を再生し、D-3のDIGITAL IN端子に入力する。
3. DAC PCBのS301を7番にセットする。
4. デジタルスイッチS101, S102を交互に回し、歪率最良点にセットする。(Lch粗調整)
5. 可変抵抗V101, V102を交互に回し、歪率最良点(0.0015％以下)に調整する。(Lch微調整)
6. Lchと同様に、S201, S202で粗調整後、V201, V202で微調整する。(Rch調整)
7. 調整後、S301を5番にし、歪率が規格内であることを確認する。
   規格：0.0018％以下(A weight)

3-2 出力DCオフセットチェック

1. LINE OUT(UNBAL)端子にDCボルトメーターを接続する。
2. MCD-111の7曲目(無信号)を再生し、オフセット電圧が規格内であることを確認する。
   規格：0 ± 15mV

3-3 出力レベルチェック

1. LINE OUT端子にACボルトメーターを接続する。
2. MCD-111の2曲目(1kHz, 0dB)を再生し、出力レベルを確認する。
   規格：3.0 ± 0.1Vrms (UNBAL)
   4.8 ± 0.2Vrms (BAL)

3-4 周波数特性チェック

1. MCD-111の3~6曲目(20Hz~20kHz, 0dB)を再生し、基準レベル(1kHz, 0dB)に対し規格内にあることを確認する。
   規格：0 ± 0.5dB (UNBAL)
   0 ± 0.6dB (BAL)
2. 20kHzを入力した状態で、DF RANGEスイッチを "WIDE" にしたとき、出力レベルが2.7 ± 0.3dB下がることを確認する。

3-5 S/N check

1. Play the track 7 (non-signal) of the MCD-111, and check that the noise level are within the specified values with respect to the 1kHz reference level.
   Specification : 108dB or more
   (DIN AUDIO, UNBAL/BAL)

3-6 Channel separation check

1. Play the track 8 (L : 1kHz/R : non-signal) of the MCD-111, and check the leakage from Lch to Rch.
2. In the same way, play the track 10 (R : 1kHz/L : non-signal) of the MCD-111, and check the leakage from Rch to Lch.
   Specification : 108dB or more (DIN AUDIO, UNBAL)

3-7 Emphasis effect check

1. Play the track 13 (16kHz) of the MCD-111, and check that the output level are within the specified values with respect to the 1kHz reference level.
   Specifications : − 20 ± 1.0dB (MCD-111, UNBAL)
   − 9.0 ± 1.0dB (YEDS-18, UNBAL)

3-5 S/Nチェック

1. MCD-111の7曲目(無信号)を再生し、ノイズレベルが基準レベルに対し規格内であることを確認する。
   規格 : 108dB以上 (DIN AUDIO, UNBAL/BAL)

3-6 チャンネルセパレーションチェック

1. MCD-111の8曲目(L : 1kHz/R : 無信号)を再生し、Rchへの漏れを確認する。
2. 同様に10曲目(R : 1kHz/L : 無信号)を再生し、Lchへの漏れを確認する。
   規格 : 108dB以上 (DIN AUDIO, UNBAL)

3-7 エンファシス効果チェック

1. MCD-111の13曲目(16kHz)を再生し、出力レベルが基準レベルに対し規格内であることを確認する。
   規格 : − 20 ± 1.0dB (MCD-111, UNBAL)
   − 9.0 ± 1.0dB (YEDS-18, UNBAL)

PARTS LIST SECTION

NOTES

- PC boards shown are viewed from parts side.
- Parts marked with ＊ require longer delivery time.
- The parts with no reference number or no parts number in the exploded views are not supplied.
- As regards the resistors and capacitors, refer to the circuit diagrams contained in this manual.
- ⚠ Parts marked with this sign are safety critical components. They must be replaced with identical components - refer to the appropriate parts list and ensure exact replacement.
- Parts of [ ] mark can be used only with the version designated.
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
  [E]:EUROPE

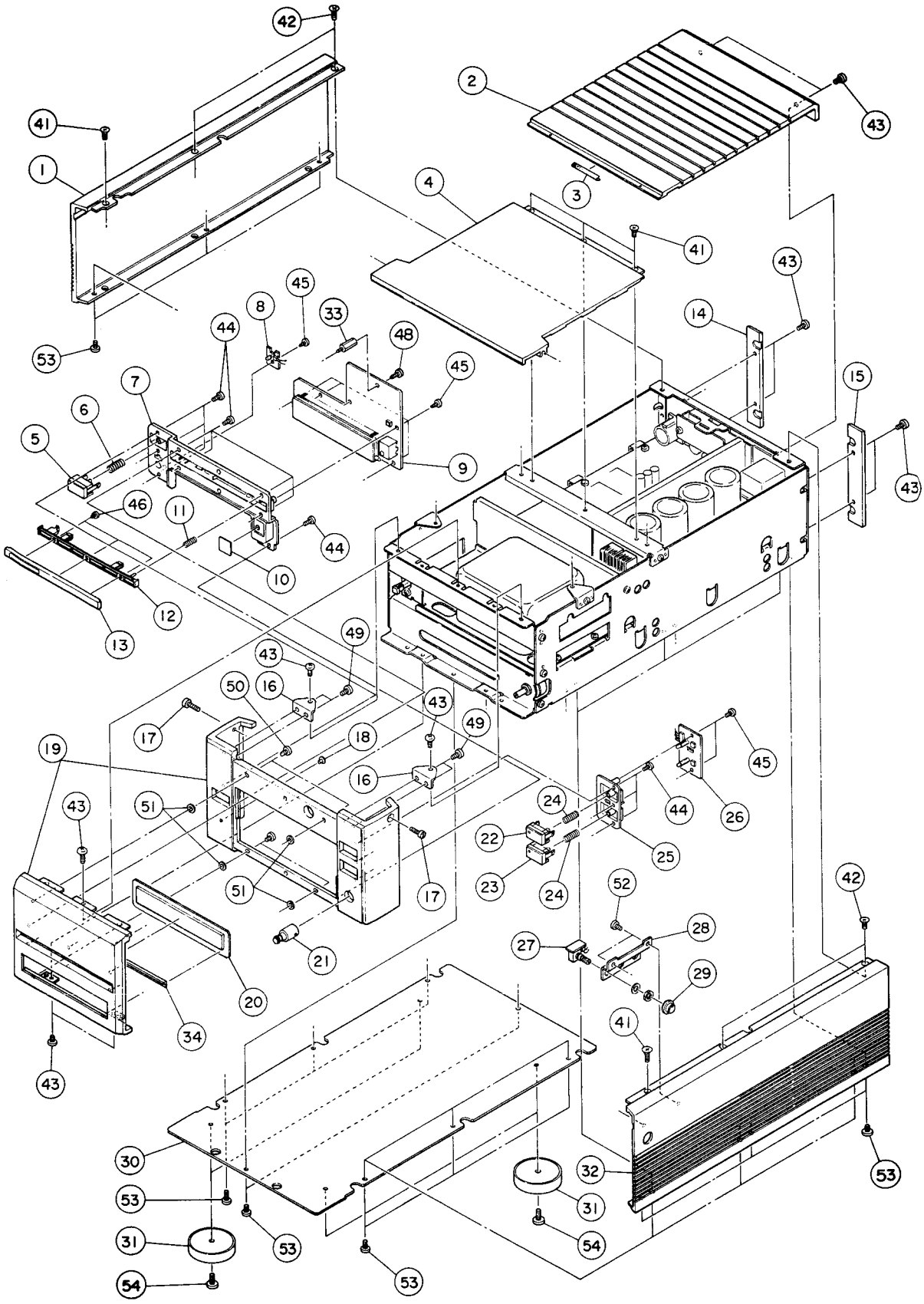
注　意

- プリント基板図は部品面が示されています。
- ＊印の部品は納期が若干かかります。
  あらかじめご了承ください。
- 分解図に部番のない部品及び品番のない部品は供給しません。
- 標準の抵抗、コンデンサーは省略してあります。
  回路図を参照してください。
- ⚠印は安全重要部品です。
  交換する時は必ずティアック指定の部品を使用してください。
- 仕向先
  [J]:JAPAN [US]:U.S.A. [C]:CANADA [GE]:GENERAL EXPORT
  [E]:EUROPE

4 EXPLODED VIEWS AND PARTS LIST

分解図とパーツリスト

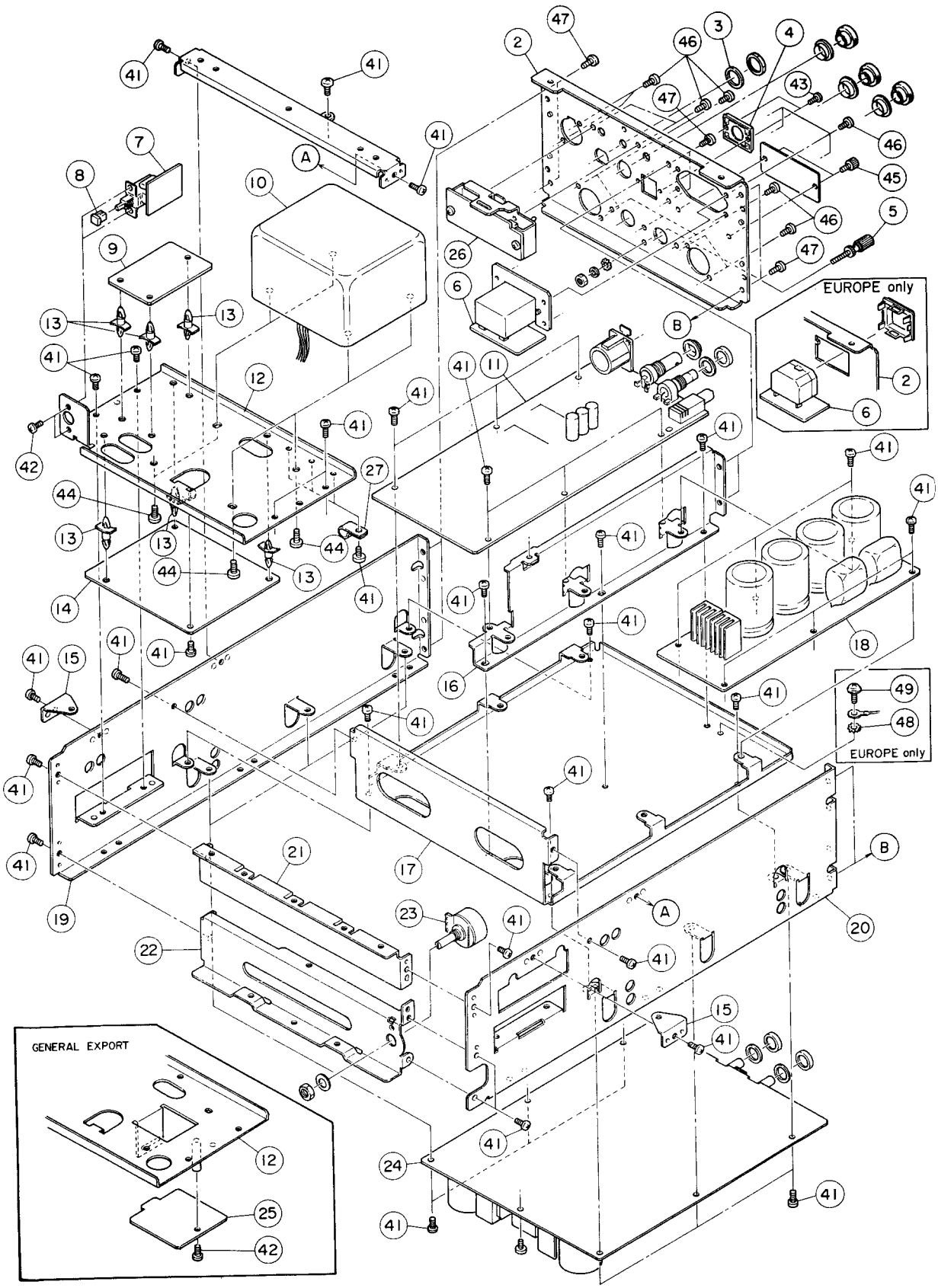
EXPLODED VIEW-1



EXPLODED VIEW-1

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
I- 1	*5801073400	SIDE PANEL (L)	
I- 2	*5801073100	TOP PANEL (B)	
I- 3	*5801117300	CUSHION	
I- 4	*5801071701	TOP PANEL (A)	
I- 5	5801068001	POWER KNOB ASSY	
I- 6	*5801070200	POWER SPRING	
I- 7	*5801073001	FL HOLDER (B)	
I- 8	*5200294400	LED PCB ASSY	
I- 9	*5200294200	FL PCB ASSY	
I-10	*5801069200	SENSOR FILTER	
I-11	*5801071200	SPRING (A)	
I-12	*5801072100	SEESAW FRAME	
I-13	*5801605400	FRAME	
I-14	*5801071900	REAR HOLDER (L)	
I-15	*5801072000	REAR HOLDER (R)	
I-16	*5801069800	PANEL BRACKET	
I-17	*5801069400	SCREW	
I-18	*5801067600	LED PIECE (C)	
I-19	*5801295400	FRONT PANEL ASSY [J,US,C,GE]	
	*5801389200	FRONT PANEL ASSY [E]	
I-20	*M00019500A	FL WINDOW ASSY	
I-21	5801294600	VR KNOB	
I-22	5801068400	PHASE KNOB ASSY	
I-23	5801068300	MUTING KNOB ASSY	
I-24	*5801070100	KNOB SPRING	
I-25	*5801072900	KEY HOLDER (B)	
I-26	*5200294300	KEY PCB ASSY	
I-27	*5200294900	DIMMER PCB ASSY	
I-28	*5801069600	VR BRACKET	
I-29	5801072200	CONTROL KNOB	
I-30	*5801295300	BOTTOM CHASSIS	
I-31	5801082700	FOOT ASSY	
I-32	*5801073600	SIDE PANEL (R)	
I-33	*5801295500	PCB STUD A	
I-34	*5801069000	FL PIECE	
I-41	*5783653006	SCREW,FLAT S-TITE M3X6 (NI)	
I-42	*5783663008	SCREW,FLAT B-TITE M3X8 (NI BLK)	
I-43	*5783853008	SCREW,BIND B-TITE M3X8 (NI)	
I-44	*5780102604	SCREW,PAN M2.6X4	
I-45	*5783602606	SCREW,BIND P-TITE M2.6X6	
I-46	*5780102003	SCREW,PAN M2X3	
I-48	*5780023006	SCREW,BIND M3X6 (NI BLK)	
I-49	*5780023005	SCREW,BIND M3X5 (NI BLK)	
I-50	*5780013006	SCREW,BIND M3X6 (NI)	
I-51	*5785305000	WASHER,POLY 5X8X0.25T	
I-52	*5780023004	SCREW,BIND M3X4 (NI BLK)	
I-53	*5783823008	SCREW,BIND B-TITE M3X8 (NI BLK)	
I-54	*5780024006	SCREW,BIND M4X6 (NI BLK)	

EXPLODED VIEW-2



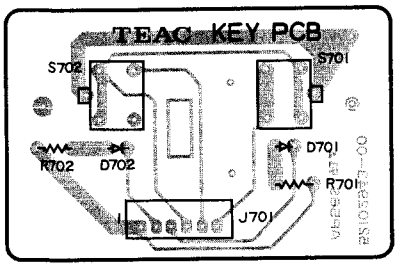
EXPLODED VIEW-2

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
2- 1	*5801613300	BRACKET	
2- 2	*5801605301	REAR PANEL [J,US,C,GE]	
	*M00064600A	REAR PANEL [E]	
2- 3	*5730041200	INSULATOR RING	
2- 4	*5801605800	ST COVER	
2- 5	5332031900	EARTH TERMINAL	
2- 6	*5200368400	ACI PCB ASSY [J,US,C,GE]	
	*E95014000A	AC IN PCB ASSY [E]	
2- 7	*5200294600	POWER SW PCB ASSY [J,US,C,GE]	
	*5200294610	POWER SW PCB ASSY [E]	
2- 8	*5801071600	POWER SW PIECE	
2- 9	*5200294700	JOINT PCB ASSY [J,US,C,GE]	
	*E95013900A	AC FILTER PCB ASSY [E]	
2-10	⚠ 5320057400	POWER TRANSFORMER [J]	
	⚠ 5320057500	POWER TRANSFORMER [US,C,GE]	
	⚠ 5320059800	POWER TRANSFORMER [E]	
2-11	*5200368300	DIR PCB ASSY	
2-12	*5801613700	TRANS CHASSIS [J,E]	
	*5801614200	TRANS CHASSIS ASSY [US,C,GE]	
2-13	5787000600	PCB SUPPORT	
2-14	*5200368700	UCON PCB ASSY	
2-15	*5801605900	SIDE BRACKET	
2-16	*5801613400	CENTER BRACKET	
2-17	*M00020600B	CENTER CHASSIS ASSY	
2-18	*5200368600	PSY PCB ASSY [J,US,C,GE]	
	*5200368610	PSY PCB ASSY [E]	
2-19	*5801613900	CHASSIS(L)	
2-20	*5801614000	CHASSIS(R)	
2-21	*5801613600	FRONT CHASSIS(B)	
2-22	*5801613500	FRONT CHASSIS(A)	
2-23	5347016800	ROTARY ENCORDER	
2-24	*5200368200	DAC PCB ASSY	
2-25	*5200294800	V.SEL PCB ASSY [US,C,GE]	
2-26	*5200368500	MSL PCB ASSY	
2-27	*5730044400	SHIELD END CLAMP	
2-41	*5783763008	SCREW,BIND B-TITE M3X8 (CU)	
2-42	*5780073006	SCREW,BIND M3X6 (CU)	
2-43	*5783552606	SCREW,PAN B-TITE M2.6X6 (NI BLK)	
2-44	*5783104006	SCREW,FLANGE M4X6	
2-45	*5781702606	BOLT,HEXAGON SOCKET M2.6X6 (NI)	
2-46	*5730036700	SCREW,BIND CLAW M3X6 (BLK)	
2-47	*5783823008	SCREW,BIND B-TITE M3X8 (NI BLK)	
2-48	*5785124000	WASHER,TOOTHED LOCK [E]	
2-49	*5783074006	SCREW,PAN CAP S-TITE M4X6 [E]	

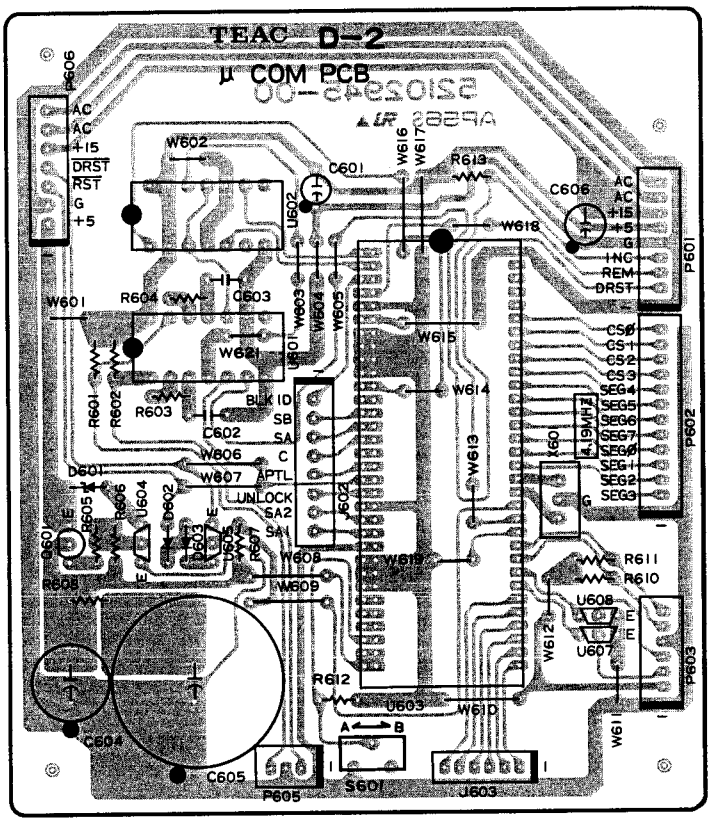
5 PC BOARDS AND PARTS LIST

基板図とパーツリスト

KEY PCB

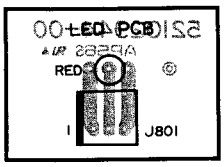


UCON PCB

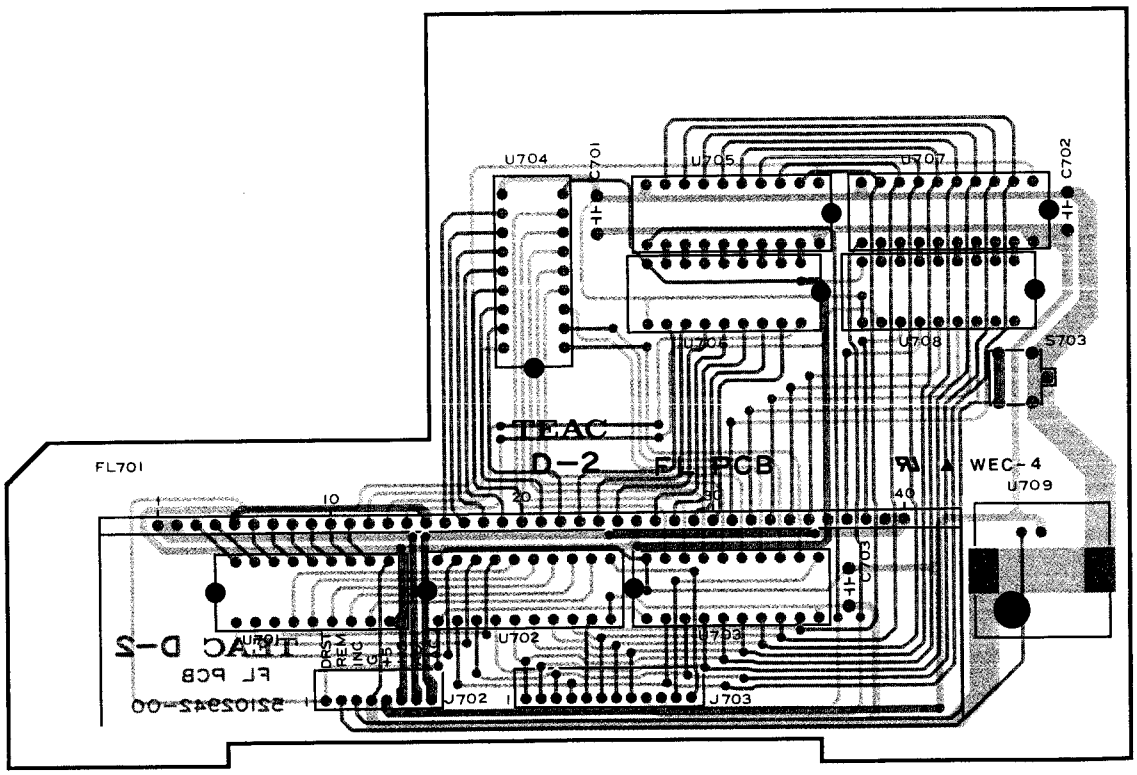


DIMMER PCB

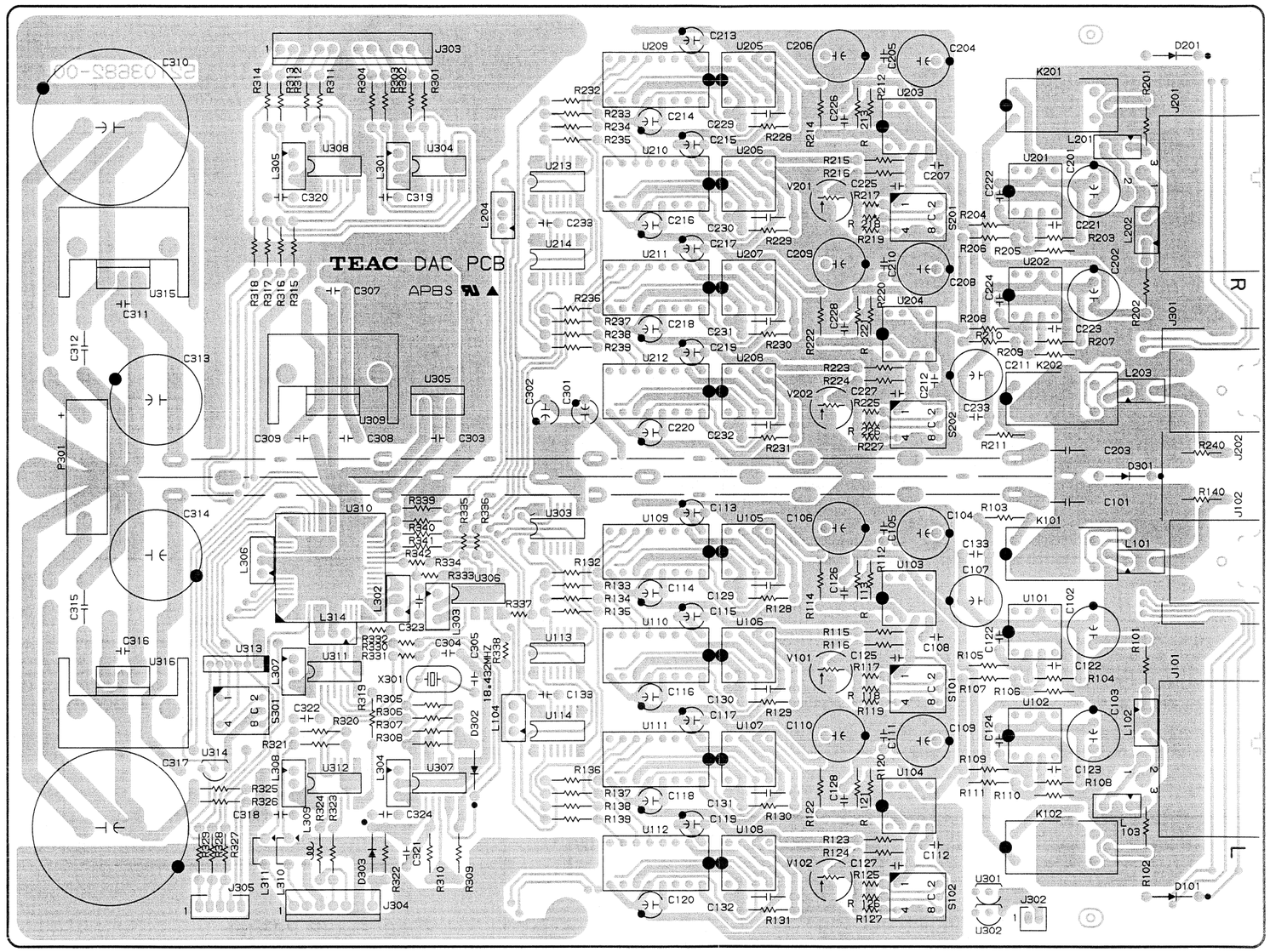
LED PCB



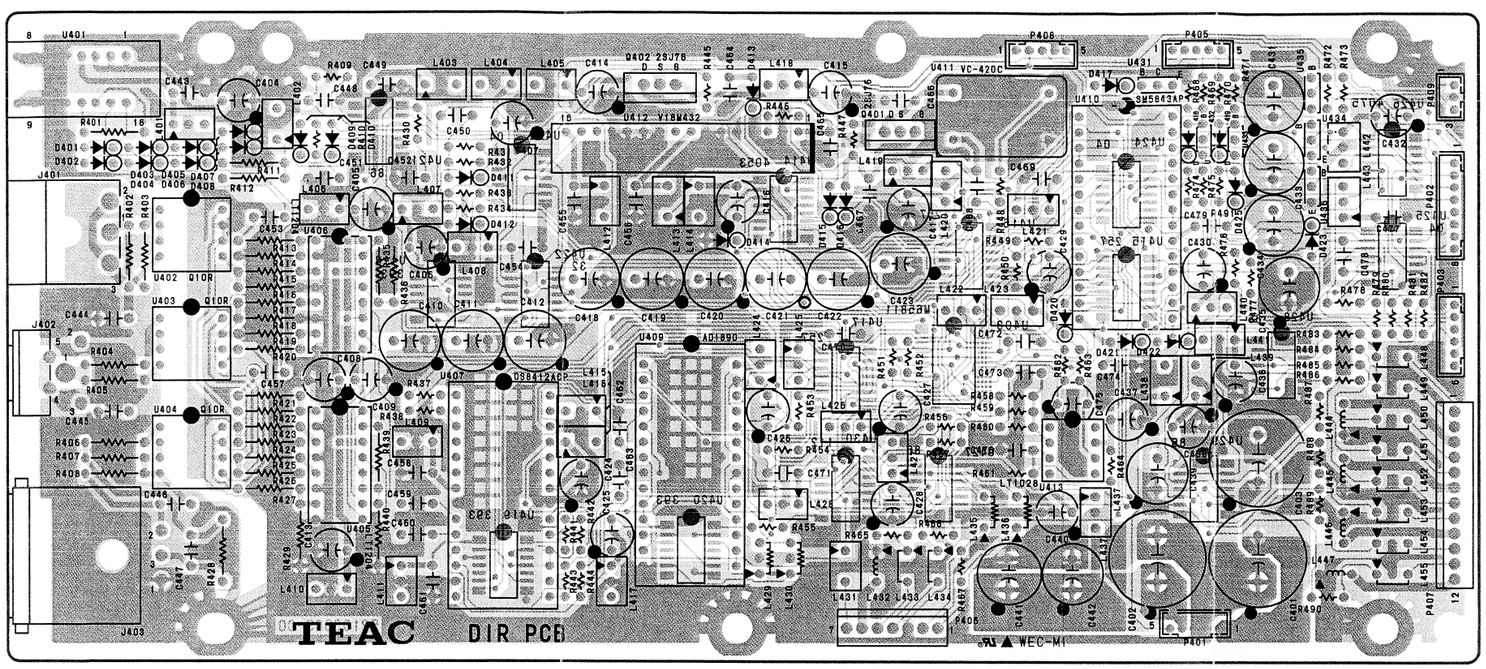
FL PCB



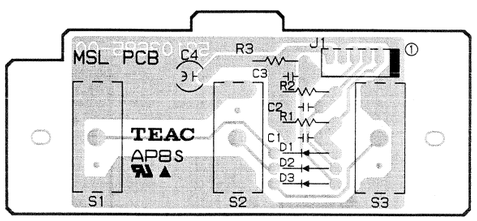
DAC PCB



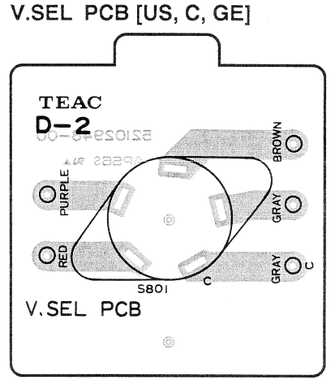
DIR PCB



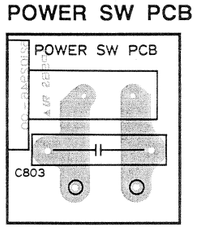
MSL PCB



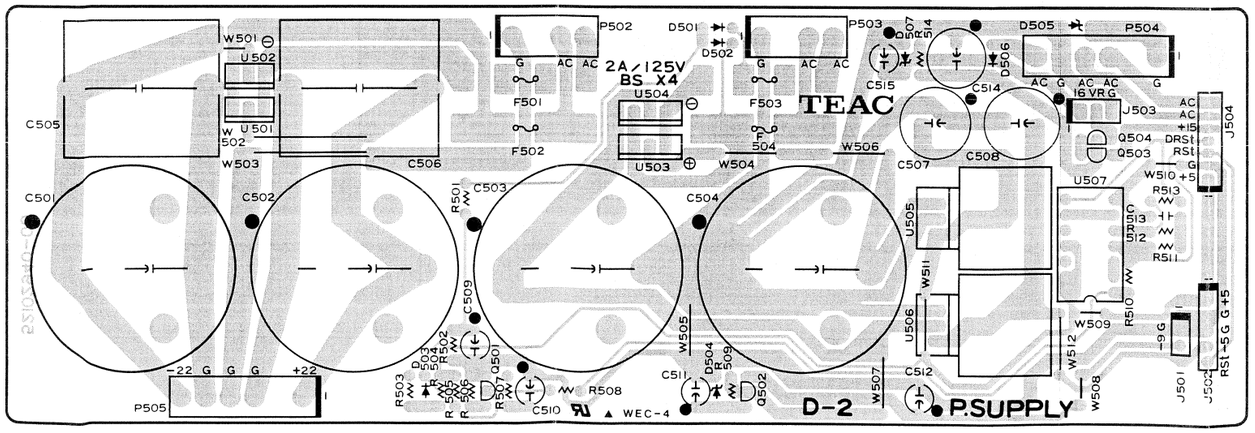
V.SEL PCB [US, C, GE]



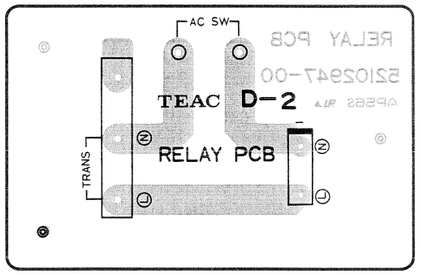
POWER SW PCB



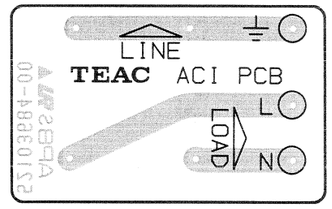
P.SUPPLY PCB



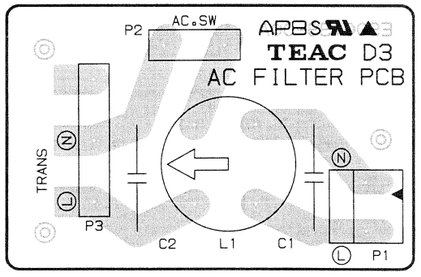
JOINT PCB [J, US, C, GE]



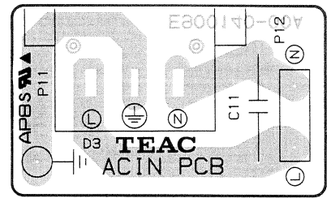
ACI PCB [J, US, C, GE]



AC FILTER PCB [E]



AC IN PCB [E]



KEY PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294300	KEY PCB ASSY
	*5210294300	KEY PCB
	*5801295600	SPACER
D701,702	5225020400	LED,SLH38 DC3F
S701,702	5302107100	SW,TACT

DIMMER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294900	DIMMER PCB ASSY
	*5210294900	DIMMER PCB
P701	5336287300	CONNECTOR PLUG,3P (WHT)
V701	5282018700	VR,10K(B)

LED PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294400	LED PCB ASSY
	*5210294400	LED PCB
	5225020700	LED,SPR54 MVW (GRN/RED)
	5730037300	LED SPACER

UCON PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200368700	UCON PCB ASSY
	*5210294500	UCON PCB
C605	5262015300	C,ELEC 1.0F/5.5V FYD
D601	5224582921	DIODE,ZENER RD3.0ESB2
D602,603	5224015020	DIODE,1SS133T-77
P601	5336255800	CONNECTOR PLUG,8P (BLK)
P602	5336256200	CONNECTOR PLUG,12P (BLK)
P603	5336255600	CONNECTOR PLUG,6P (BLK)
P605	5336253300	CONNECTOR PLUG,3P (YEL)
P606	5336126700	CONNECTOR PLUG (WHT)
Q601	5230018920	TR,2SA1115F
S601	5300913900	SW,SLIDE 1-2
U601	5220066700	IC,HD74HC14P
U602	5220067600	IC,HD74HC74P
U603	S00000700A	IC,UPD75P108CW
U604,605	5232257820	TR,UN4211
U607,608	5232257820	TR,UN4211
X601	5347012000	OSC,CERAMIC CST4.19MGW

FL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294200	FL PCB ASSY
	*5210294200	FL PCB
	*5801180900	FL CUSHION
FL701	5347016700	FL DISPLAY,FIP5AM6S
J702	5336293800	CONNECTOR PLUG,8P (BLK)
J703	5336294200	CONNECTOR PLUG,12P (BLK)
S703	5302101800	SW,TACT
U701,704	5220062600	IC,M54564P
U702,703	5220048200	IC,UPD74HC574C
U705,707	5220048200	IC,UPD74HC574C
U706,708	5220062600	IC,M54564P
U709	5292209500	REMOTE CONTROL MODULE

DAC PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200368200	DAC PCB ASSY
	*5210368200	DAC PCB
	5730044300	HEAT SINK
	16362789	SILICON RUBBER SHEET
	16496432	WASHER INSULATION
	*5783743008	SCREW,BIND S-TITE M3X8(CU)
	*5347023300	SHIELD SHEET D (CU)
	*5347023100	SHIELD SHEET B (CU)
	*5347023000	SHIELD SHEET A (CU)
C101,203	5263325700	C,METAL 0.47UF/63V K SA
C102,201	5260531420	C,ELEC 100UF/20V M SA
C103,202	5260531420	C,ELEC 100UF/20V M SA
C104,204	5260531420	C,ELEC 100UF/20V M SA
C106,206	5260531420	C,ELEC 100UF/20V M SA
C107,211	5260531420	C,ELEC 100UF/20V M SA
C109,208	5260531420	C,ELEC 100UF/20V M SA
C110,209	5260531420	C,ELEC 100UF/20V M SA
C113,213	5260526820	C,ELEC 1.0UF/25V M SC
C114,214	5260528520	C,ELEC 10UF/25V M SC
C115,215	5260526820	C,ELEC 1.0UF/25V M SC
C116,216	5260528520	C,ELEC 10UF/25V M SC
C117,217	5260526820	C,ELEC 1.0UF/25V M SC
C118,218	5260528520	C,ELEC 10UF/25V M SC
C119,219	5260526820	C,ELEC 1.0UF/25V M SC
C120,220	5260528520	C,ELEC 10UF/25V M SC
C121,221	5266052700	C,MICA 470PF/500V G
C122,222	5266052700	C,MICA 470PF/500V G
C123,223	5266052700	C,MICA 470PF/500V G
C124,224	5266052700	C,MICA 470PF/500V G
C125,225	5266051100	C,MICA 100PF/500V G
C126,226	5266051100	C,MICA 100PF/500V G
C127,227	5266051100	C,MICA 100PF/500V G
C128,228	5266051100	C,MICA 100PF/500V G
C129,229	5263341300	C,POLY 100PF/630V G
C130,230	5263341300	C,POLY 100PF/630V G

DAC PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
C131,231	5263341300	C,POLY 100PF/630V G
C132,232	5263341300	C,POLY 100PF/630V G
C133,233	5263341300	C,POLY 100PF/630V G
C301,302	5260528520	C,ELEC 10UF/25V M SC
C310,317 ⚠	5262014500	C,ELEC 1000UF/50V AUDIO
C312,315	5263325700	C,METAL 0.47UF/63V K SA
C313,314	5260498400	C,ELEC 470UF/50V M AVF
D101,201	5224019500	D,UGID
D301	5224019500	D,UGID
D302	5224018120	D,FEID-G23
D303	5224019500	D,UGID
J101	5334089400	CONNECTOR,CANNON
J102	5330516200	RCA PIN JACK (WHT)
J201	5334089500	CONNECTOR,CANNON
J202	5330516300	RCA PIN JACK (RED)
J301	5801605500	EARTH PLATE
J302	5336253200	CONNECTOR PLUG,2P (YEL)
J306	5801062100	EARTH PLATE F
J307,308	5801062000	EARTH PLATE E
K101,201	5290015900	RELAY,12V 1C
K102,202	5290015900	RELAY,12V 1C
L101,201	5292813720	EMI FILTER,HH28123MA
L102,202	5292813720	EMI FILTER,HH28123MA
L103,203	5292813720	EMI FILTER,HH28123MA
L104,204	5292813720	EMI FILTER,HH28123MA
L301-308	5292813720	EMI FILTER,HH28123MA
L310,311	E0003191	FILTER,HU20M
L314	5292813720	EMI FILTER,HH28123MA
P301	5336172500	CONNECTOR PLUG,5P
R101,201	5241637020	R,METAL 75 J PR01
R102,202	5241637020	R,METAL 75 J PR01
R103,211	5241637020	R,METAL 75 J PR01
R104,204	5241640320	R,METAL 1.8K J PR01
R105,205	5241640320	R,METAL 1.8K J PR01
R106,206	5241640320	R,METAL 1.8K J PR01
R107,207	5241640320	R,METAL 1.8K J PR01
R108,208	5241640320	R,METAL 1.8K J PR01
R109,209	5241640320	R,METAL 1.8K J PR01
R110,210	5241640320	R,METAL 1.8K J PR01
R111,203	5241640320	R,METAL 1.8K J PR01
R112,212	5241608920	R,METAL 5.1K F MRS25
R113,213	5241627020	R,METAL 100K F MRS25
R114,214	5241624620	R,METAL 10K F MRS25
R115,215	5241624620	R,METAL 10K F MRS25
R116,216	5241608920	R,METAL 5.1K F MRS25
R117,217	5241464120	R,METAL 300K F CRB20
R118,218	5241462720	R,METAL 75K F CRB20
R119,219	5241463420	R,METAL 150K F CRB20
R120,220	5241608920	R,METAL 5.1K F MRS25
R121,221	5241627020	R,METAL 100K F MRS25
R122,222	5241624620	R,METAL 10K F MRS25
R123,223	5241624620	R,METAL 10K F MRS25
R124,224	5241608920	R,METAL 5.1K F MRS25
R125,225	5241464120	R,METAL 300K F CRB20
R126,226	5241462720	R,METAL 75K F CRB20
R127,227	5241463420	R,METAL 150K F CRB20
R128,228	5241149020	R,METAL 2.2K F 25
R129,229	5241149020	R,METAL 2.2K F 25
R130,230	5241149020	R,METAL 2.2K F 25
R131,231	5241149020	R,METAL 2.2K F 25

DAC PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
R132,232	5241620620	R,METAL 220 F MRS25
R133,233	5241620620	R,METAL 220 F MRS25
R134,234	5241620620	R,METAL 220 F MRS25
R135,235	5241620620	R,METAL 220 F MRS25
R136,236	5241620620	R,METAL 220 F MRS25
R137,237	5241620620	R,METAL 220 F MRS25
R138,238	5241620620	R,METAL 220 F MRS25
R139,239	5241620620	R,METAL 220 F MRS25
R140,240	5241152220	R,METAL 47K F 25
R301-305	5241620620	R,METAL 220 F MRS25
R306	5241603220	R,METAL 22 F MRS25
R307	5241629420	R,METAL 1.0M F MRS25
R308	5241622220	R,METAL 1.0K F MRS25
R309	5241627020	R,METAL 100K F MRS25
R310	5241624620	R,METAL 10K F MRS25
R311-319	5241620620	R,METAL 220 F MRS25
R320,321	5241603220	R,METAL 22 F MRS25
R322	5241624620	R,METAL 10K F MRS25
R323,324	5241620620	R,METAL 220 F MRS25
R325,326	5241627020	R,METAL 100K F MRS25
R327-329	5241620620	R,METAL 220 F MRS25
R330,331	5241460620	R,METAL 10K F CRB20
R332-338	5241456620	R,METAL 220 F CRB20
R339-342	5241620620	R,METAL 220 F MRS25
S101,201	5302109900	SW,DIGITAL SRGE N=16
S102,202	5302109900	SW,DIGITAL SRGE N=16
S301	5302109900	SW,DIGITAL SRGE N=16
U101,201	5220455100	IC,AD797AN
U102,202	5220455100	IC,AD797AN
U103,203	5220454100	IC,LT1028CN8
U104,204	5220454100	IC,LT1028CN8
U105,205	5220454000	IC,OPA604AP
U106,206	5220454000	IC,OPA604AP
U107,207	5220454000	IC,OPA604AP
U108,208	5220454000	IC,OPA604AP
U109,209	5220094500	IC,AD1862N-J
U110,210	5220094500	IC,AD1862N-J
U111,211	5220094500	IC,AD1862N-J
U112,212	5220094500	IC,AD1862N-J
U113,213	5220125200	IC,HD74HC164FP
U114,214	5220125200	IC,HD74HC164FP
U301,302	5232257820	TR,UN4211
U303	5220125200	IC,HD74HC164FP
U304	5220125000	IC,HD74HC86FP
U305	⚠ 5220454700	IC,LM7905CT
U306	5220124800	IC,HD74HC04FP
U307	5220125700	IC,MC74HCU04F
U308	5220125000	IC,HD74HC86FP
U309	⚠ 5220454500	IC,LM7805CT
U310	5220088300	IC,UPD65031GC-433
U311	5220126800	IC,HD74HC00FP
U312	5220125000	IC,HD74HC86FP
U313	5242123000	R,ARRAY RYLA-5J223
U314	5232257820	TR,UN4211
U315	⚠ 5220454600	IC,LM7812CT
U316	⚠ 5220454800	IC,LM7912CT
V101,201	5280180502	R,TRIMMER 100(B)
V201,202	5280180502	R,TRIMMER 100(B)
X301	5347028700	X'TAL OSC,18.432MHZ

DIR PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200368300	DIR PCB ASSY
	*5210368300	DIR PCB
	*5347023500	SHIELD SHEET F (CU)
C401-403	5260475810	C,ELEC 1000UF/25V M PZ
C404-409	5260528520	C,ELEC 10UF/25V M SC
C410-412	5262019500	C,ELEC 1000UF/6.3V DUOREX2
C413-417	5260528520	C,ELEC 10UF/25V M SC
C418-423	5262019500	C,ELEC 1000UF/6.3V DUOREX2
C424-430	5260528520	C,ELEC 10UF/25V M SC
C431	5262019500	C,ELEC 1000UF/6.3V DUOREX2
C432	5260528520	C,ELEC 10UF/25V M SC
C433-435	5262019500	C,ELEC 1000UF/6.3V DUOREX2
C436-438	5260528520	C,ELEC 10UF/25V M SC
C439	5262019500	C,ELEC 1000UF/6.3V DUOREX2
C440	5260528520	C,ELEC 10UF/25V M SC
C441,442	5262019500	C,ELEC 1000UF/6.3V DUOREX2
C475,478	5260526820	C,ELEC 1.0UF/25V M SC
D401-423	5224016420	DIODE,S5688G
D425	5224016420	DIODE,S5688G
J401	5330516200	RCA PIN JACK (WHT)
J402	E0000760	CONNECTOR,BNC
J403	5334078400	CONNECTOR,CANNON
L401-412	5292813720	EMI FILTER,HH28123MA
L413,419	5292813620	EMI FILTER,HU10M
L414-418	5292813720	EMI FILTER,HH28123MA
L420-428	5292813720	EMI FILTER,HH28123MA
L429,430	5241456620	R,METAL 220 F CRB20
L431	5292813620	EMI FILTER,HU10M
L433,434	E0003191	FILTER,HU20M
L435,436	5241455920	R,METAL 110 F CRB20
L437-443	5292813720	EMI FILTER,HH28123MA
L448-455	E0003191	FILTER,HU20M
P401	5336255500	CONNECTOR PLUG,5P (BLK)
P402	5336255800	CONNECTOR PLUG,8P (BLK)
P403	5336249600	CONNECTOR PLUG,6P (WHT)
P405	5336249500	CONNECTOR PLUG,5P (WHT)
P406	5336126700	CONNECTOR PLUG (WHT)
P407	5336127200	CONNECTOR PLUG (WHT)
P408	5336251500	CONNECTOR PLUG,5P (RED)
P409	5336255300	CONNECTOR PLUG,3P (BLK)
Q401,402	5232009200	FET,2SJ76
R401	5241622220	R,METAL 1.0K F MRS25
R402,405	5241637720	R,METAL 150 J PR01
R407	5241604120	R,METAL 51 F MRS25
R408	5241603720	R,METAL 36 F MRS25
R409,410	5241460620	R,METAL 10K F CRB20
R411,412	5241608620	R,METAL 3.9K F MRS25
R413,414	5241622820	R,METAL 1.8K F MRS25
R415,417	5241634920	R,METAL 10 J PR01
R416,418	5241637720	R,METAL 150 J PR01
R419,420	5241637020	R,METAL 75 J PR01
R421,422	5241622820	R,METAL 1.8K F MRS25
R423,425	5241634920	R,METAL 10 J PR01
R424,426	5241637720	R,METAL 150 J PR01
R427	5241637020	R,METAL 75 J PR01

DIR PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
R428	5241603720	R,METAL 36 F MRS25
R429	5241637020	R,METAL 75 J PR01
R430	5241460620	R,METAL 10K F CRB20
R431	5241463020	R,METAL 100K F CRB20
R432	5241458220	R,METAL 1.0K F CRB20
R433	5241463020	R,METAL 100K F CRB20
R434	5241460620	R,METAL 10K F CRB20
R435,436	5241622220	R,METAL 1.0K F MRS25
R437,438	5241456620	R,METAL 220 F CRB20
R439,440	5241622220	R,METAL 1.0K F MRS25
R441	5241456620	R,METAL 220 F CRB20
R442	5241458220	R,METAL 1.0K F CRB20
R443,444	5241456620	R,METAL 220 F CRB20
R445	5241460620	R,METAL 10K F CRB20
R446	5241456620	R,METAL 220 F CRB20
R447	5241460620	R,METAL 10K F CRB20
R448,449	5241456620	R,METAL 220 F CRB20
R450	5241460620	R,METAL 10K F CRB20
R451-457	5241456620	R,METAL 220 F CRB20
R458	5241460820	R,METAL 12K F CRB20
R459	5241459920	R,METAL 5.1K F CRB20
R460,461	5241460820	R,METAL 12K F CRB20
R462	5241460620	R,METAL 10K F CRB20
R463	5241458220	R,METAL 1.0K F CRB20
R464	5241460820	R,METAL 12K F CRB20
R465,466	5241454220	R,METAL 22 F CRB20
R467	5241456620	R,METAL 220 F CRB20
R468	5241460620	R,METAL 10K F CRB20
R469-477	5241456620	R,METAL 220 F CRB20
R478	5241463020	R,METAL 100K F CRB20
R479	5241465420	R,METAL 1.0M F CRB20
R480	5241463020	R,METAL 100K F CRB20
R481,482	5241460620	R,METAL 10K F CRB20
R483-490	5241454220	R,METAL 22 F CRB20
R491	5241460620	R,METAL 10K F CRB20
U401	5292210600	OPTICAL MODULE,ODL50 1352P
U402-404	5320065100	PULSE TRANSFORMER
U405,406	5220454200	IC,LT1204CN
U407	5220124500	IC,CS8412CP
U408	5220124400	IC,M65811FP
U409	5220124300	IC,AD1890N
U410	5220123800	IC,SM5843AP
U411	5347028600	VCXO,VC-420C 16.9344M
U412	5292209400	VCO MODULE,18M432-D300
U413	5220454100	IC,LT1028CN8
U414	5220125500	IC,MC74HC4053F
U415-417	5220125300	IC,HD74HC257FP
U418-420	5220125400	IC,HD74HC393FP
U421	5220125000	IC,HD74HC86FP
U422	5220124900	IC,HD74HC32FP
U423-425	5220124800	IC,HD74HC04FP
U426	5220125600	IC,MC74HC4075F
U427-429	5220125000	IC,HD74HC86FP
U430	5220125100	IC,HD74HC112FP
U431-435	5232259220	TR,UN4111
U436	5232257820	TR,UN4211

PSY PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200368600	PSY PCB ASSY [J,US,C,GE]
	*5200368610	PSY PCB ASSY [E]
	*5210294000	P.SUPPLY PCB
	M0001901	HEAT SINK
	*5780103006	SCREW,PAN M3X6
	5332015800	FUSE HOLDER
	*5347023100	SHIELD SHEET B (CU)
C501,502	⚠ 5262014300	C,ELEC 4700UF/50V AUDIO
C503,504	⚠ 5262014400	C,ELEC 10000UF/25V AUDIO
C505,506	⚠ 5263188600	C,METAL 6.8UF/200V K
D501-503	5224015020	DIODE,1SS133T-77
D505	5224583821	DIODE,ZENER RD3.9ESB2
D506	⚠ 5224019500	D,UGID
D507	5224590221	DIODE,ZENER RD18ESB3
F501-504	⚠ 5307050200	FUSE,2A SLOW BLOW [J,US,C,GE]
F501-504	⚠ 5307053100	FUSE,2.0A TIME LUG [E]
P502,503	5336172300	CONNECTOR PLUG,3P
P504,505	5336172500	CONNECTOR PLUG,5P
Q501	5230780900	TR,2SC2603F
Q503	⚠ 5145082000	TR,2SC2060Q
Q504	5230780900	TR,2SC2603F
R501	5241458220	R,METAL 1.0K F CRB20
R502	5241459720	R,METAL 4.3K F CRB20
R503	5241459420	R,METAL 3.3K F CRB20
R504	5241460620	R,METAL 10K F CRB20
R505	5241463620	R,METAL 180K F CRB20
R506	5241460620	R,METAL 10K F CRB20
R507	5241455820	R,METAL 100 F CRB20
R508	5241463020	R,METAL 100K F CRB20
R509	5241453420	R,METAL 10 F CRB20
R510	5241465420	R,METAL 1.0M F CRB20
R511,512	5241463020	R,METAL 100K F CRB20
R513	5241465420	R,METAL 1.0M F CRB20
R514	5241457820	R,METAL 680 F CRB20
U501,503	⚠ 5228016900	SILICON STACK,5GG2C41
U502,504	⚠ 5228017000	SILICON STACK,5GG2Z41
U505	⚠ 5220437200	IC,UPC78M05HF
U506	⚠ 5220436600	IC,UPC79M05HF
U507	5220051800	IC,TC74HC04AP

MSL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200368500	MSL PCB ASSY
	*5210368500	MSL PCB
	*5801605700	PCB ANGLE
	*5783743008	SCREW,BIND S-TITE M3X8(CU)
C4	5260528520	C,ELEC 10UF/25V M SC
D1-3	5224019500	D,UGID
R1-3	5241624620	R,METAL 10K F MRS25
S1-3	5301654200	SW,TOGGLE

POWER SW PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294600	PWR SW PCB ASSY [J,US,C,GE]
	*5200294610	PWR SW PCB ASSY [E]
	*5210294600	POWER SW PCB
C803	⚠ 5267704000	SPK KILLER 0.0047UF/250V [J,US,C,GE]
C803	⚠ 5267704100	SPK KILLER 0.0047UF/250V[E]
S802	⚠ 5300046200	SW,PUSH 1-1

V.SEL PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294800	V.SEL PCB ASSY [US,C,GE]
	*5210294800	V.SEL PCB
	⚠ 5302101700	SW,VOLTAGE SELECTOR

JOINT PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*5200294700	JOINT PCB ASSY [J,US,C,GE]
	*5210294700	JOINT PCB
	5327007300	TERMINAL,3P
	5336334200	CONNECTOR PLUG,2P

AC FILTER PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*E95013900A	AC FILTER PCB ASSY [E]
	*E90013900A	AC FILTER PCB
C001	⚠ 5267704000	SPARK KILLER 0.0047UF/250V
C002	⚠ 5267704100	SPARK KILLER 0.0047UF/250V
L001	⚠ 5292806300	NOISE FILTER
P001	5327007300	TERMINAL LAPPING, 3P
P003	5336334200	CONNECTOR PLUG, 2P

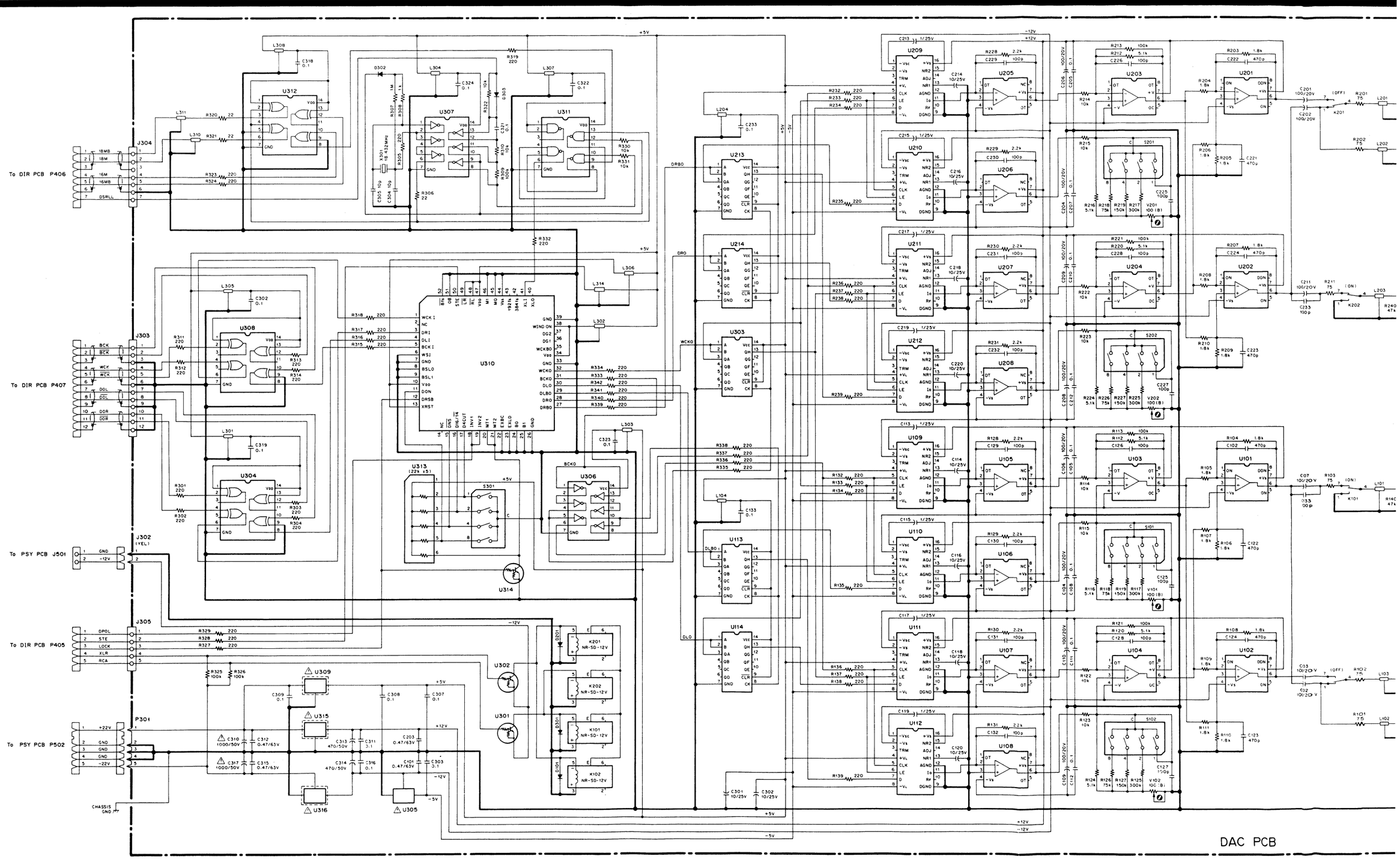
ACI PCB ASSY

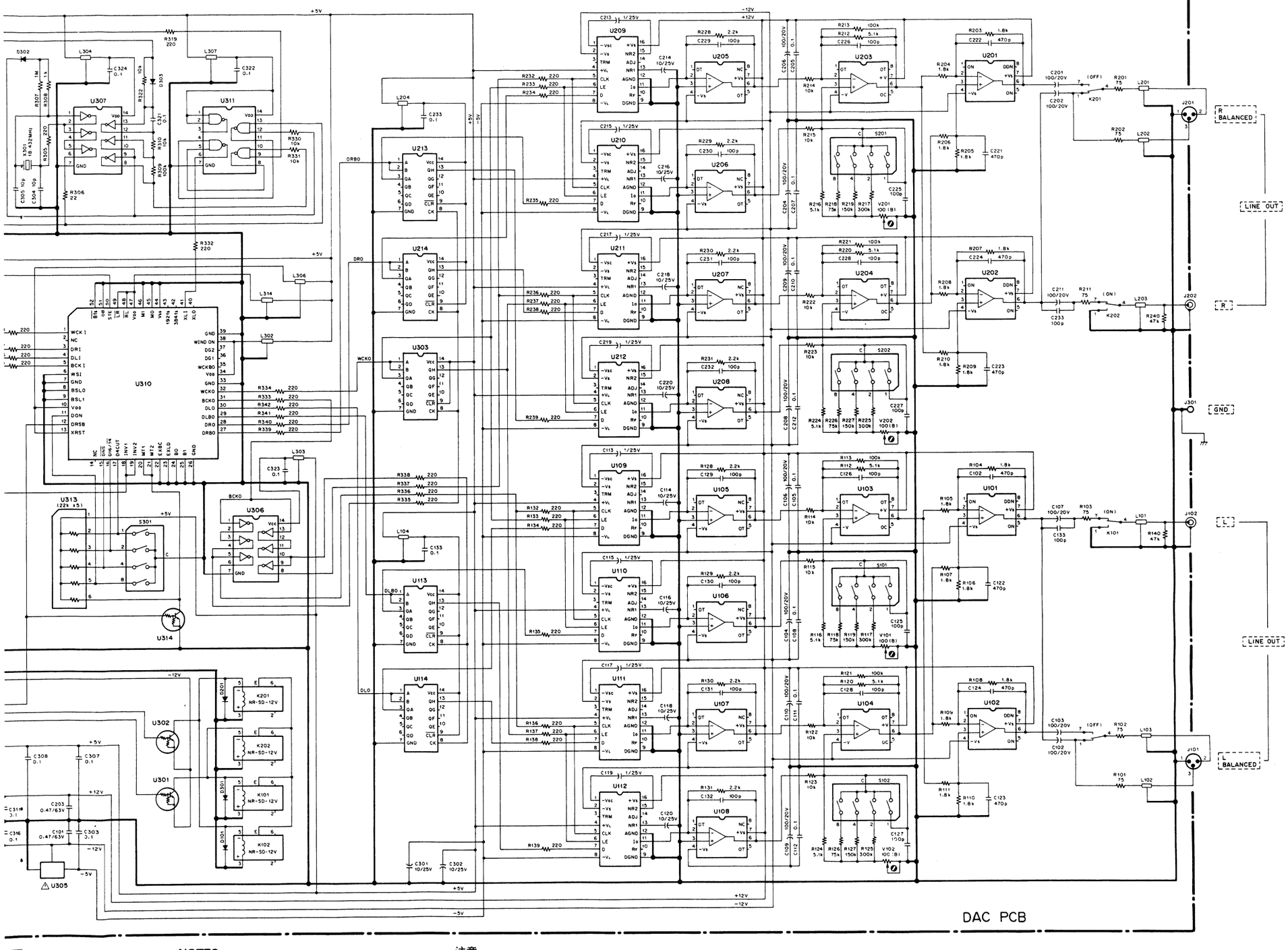
REF.NO.	PARTS NO.	DESCRIPTION
	*5200368400	ACI PCB ASSY [J,US,C,GE]
	*5210368400	ACI PCB
	⚠ 5292813500	EMI FILTER,06ME3
	*5801605600	REAR PLATE
	*5783863008	SCREW,FLAT S-TITE M3X8 (NI BLK)

AC IN PCB ASSY

REF.NO.	PARTS NO.	DESCRIPTION
	*E95014000A	AC IN PCB ASSY [E]
	*E90014000A	AC IN PCB
C011	⚠ 5267704000	SPARK KILLER 0.0047UF/250V
P011	⚠ 5332029600	AC INLET, 3P

TEAC SCHEMATIC DIAGRAM D-3 DAC





U101	U201	AD797AN
U102	U202	AD797AN
U103	U203	LT1028CN8
U104	U204	LT1028CN8
U105	U205	OPA604AP
U106	U206	OPA604AP
U107	U207	OPA604AP
U108	U208	OPA604AP
U109	U209	AD1862N-J
U110	U210	AD1862N-J
U111	U211	AD1862N-J
U112	U212	AD1862N-J
U113	U213	HD74HC164FP
U114	U214	HD74HC164FP
U301	UN4211	
U302	UN4211	
U303	HD74HC164FP	
U304	HD74HC164FP	
U305	LM7905CT	
U306	HD74HC04FP	
U307	MC74HCU04F	
U308	HD74HC86FP	
U309	LM7805CT	
U310	μPD65031GC-433	
U311	HD74HC00FP	
U312	HD74HC86FP	
U313	HYLS-5J223 (22kΩ x5)	
U314	UN4211	
U315	LM7812CT	
U316	LM7912CT	
D101	D201	UG1D
	D301	UG1D
	D302	FE1D-G23
	D303	UG1D

NOTES:
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注意
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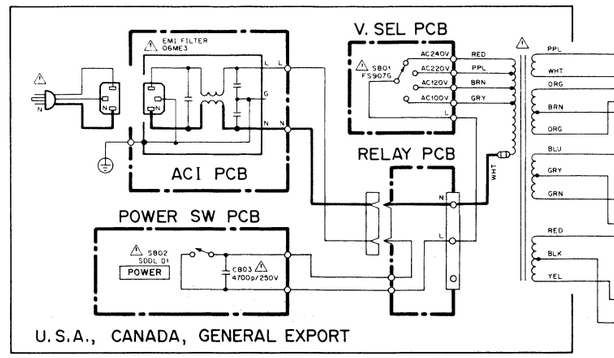
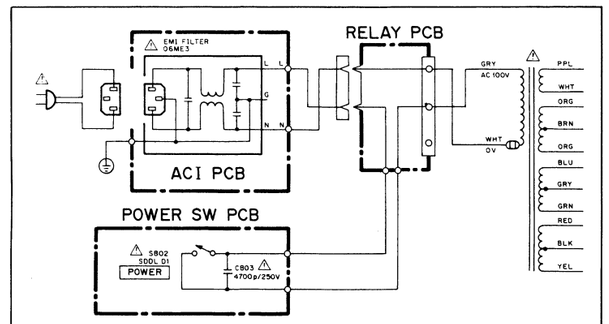
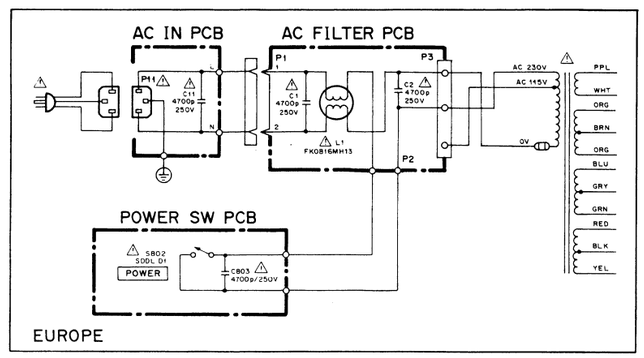
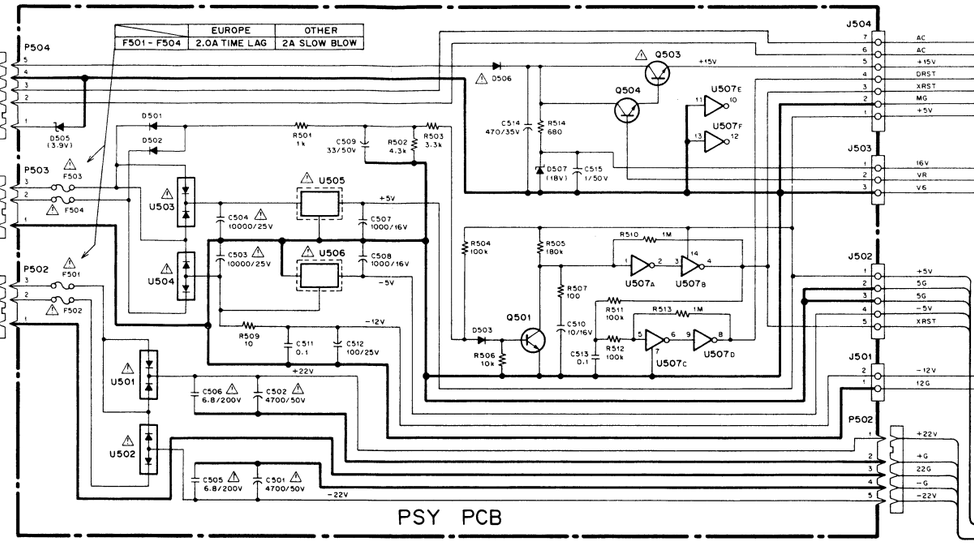
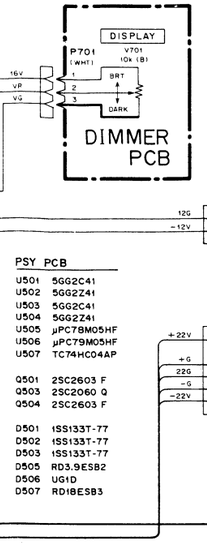
TEAC SCHEMATIC DIAGRAM D-3 POWER SECTION/PSY/FL/UCON/KEY/DIMMER

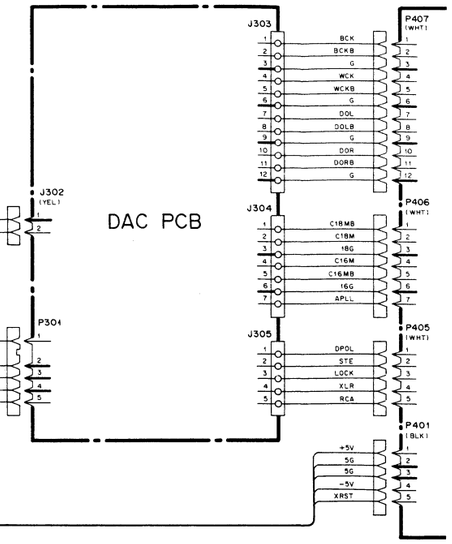


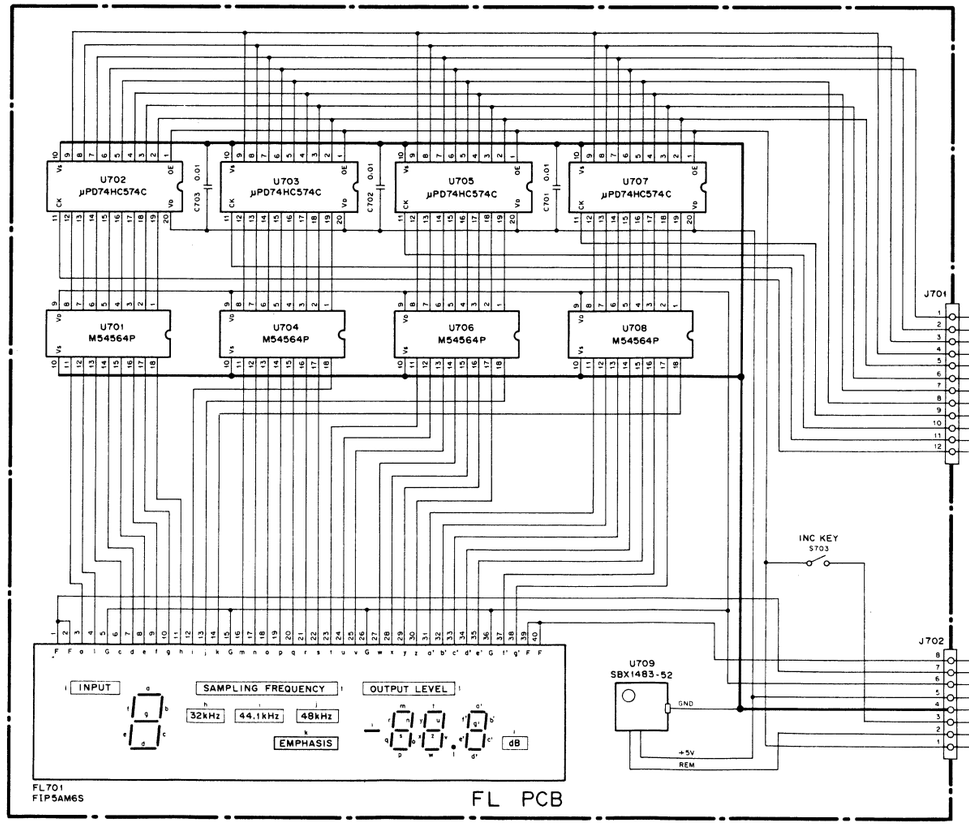


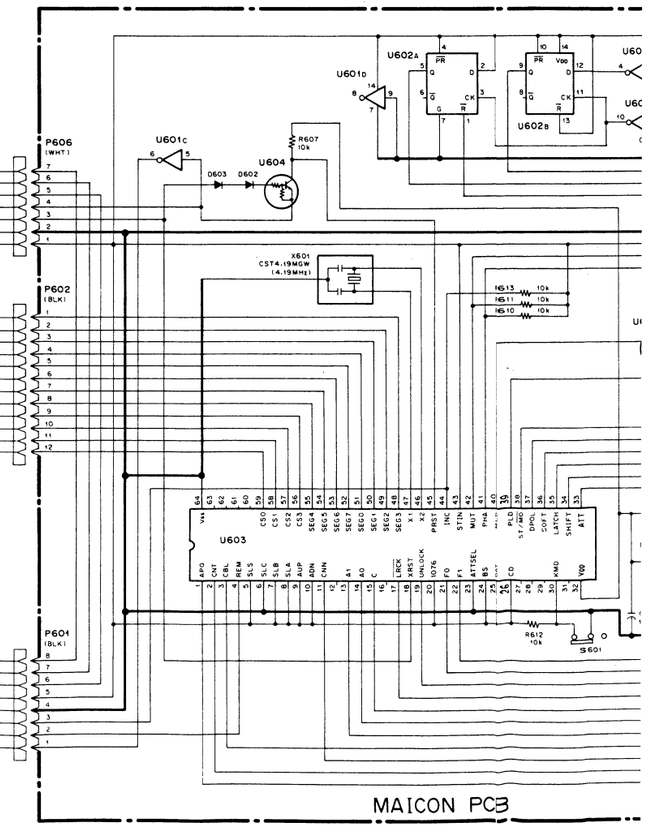












INSTRUCTIONS FOR SERVICE PERSONNEL

BEFORE RETURNING APPLIANCE TO THE CUSTOMER, MAKE LEAKAGE-CURRENT OR RESISTANCE MEASUREMENTS TO DETERMINE THAT EXPOSED PARTS ARE ACCEPTABLY INSULATED FROM THE SUPPLY CIRCUIT.

NOTES:

1. Resistor values are in ohms (k=kilo-ohms, M=megohms).
2. Capacitor values are in microfarads (p=picofarads).
3. ⚠ Parts marked with this sign are safety critical components. They must always be replaced with identical components-refer to the appropriate parts list and ensure exact replacement.

注意

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2. コンデンサの単位はμF（p＝pF）です。
3. ⚠マークのある部品は安全規格重要部品です。
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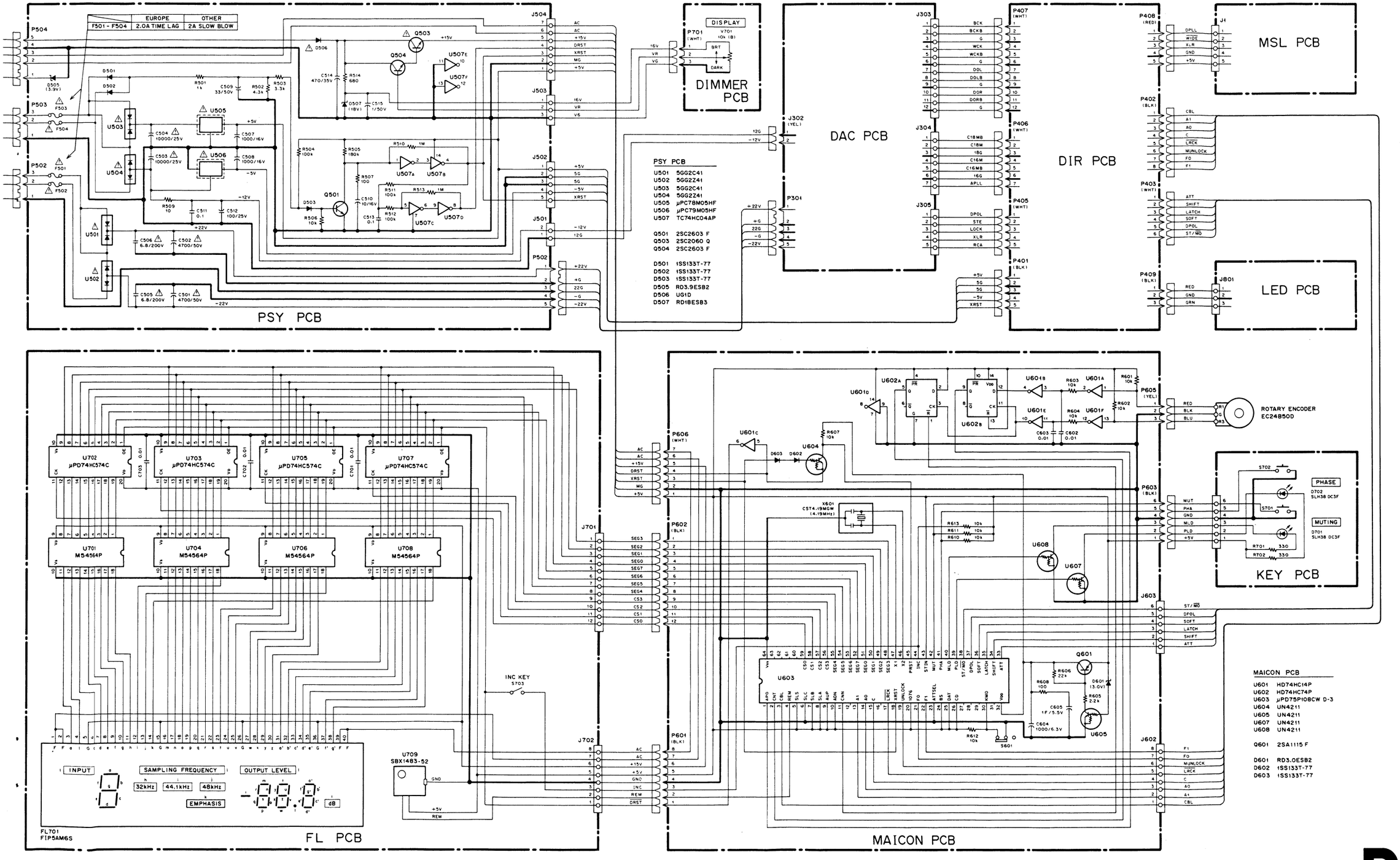
3 4 5 6 7 8 9 10



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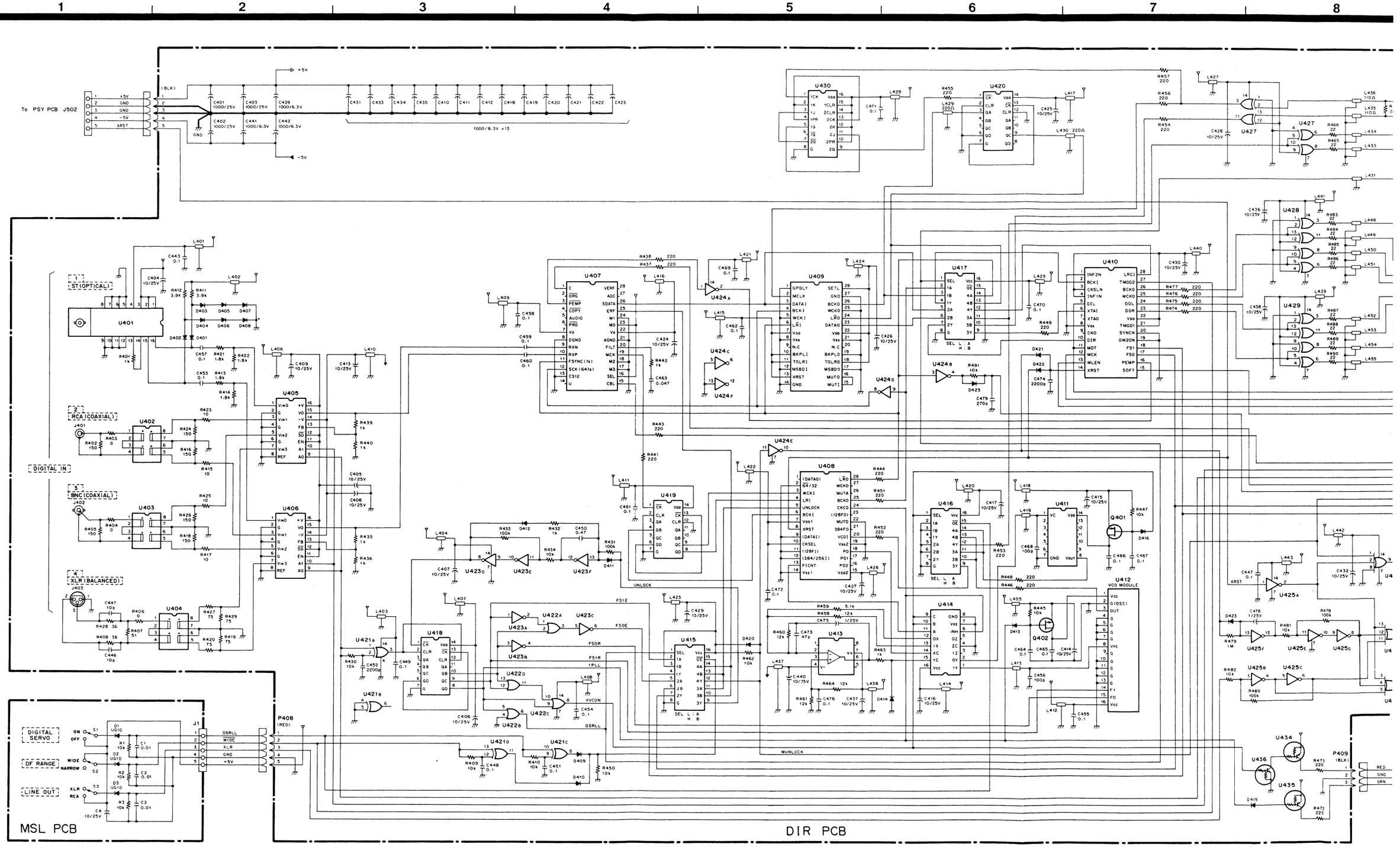
TEAC SCHEMATIC DIAGRAM D-3 DIR/LED/MSL



INSTRUCTIONS FOR SERVICE PERSONNEL

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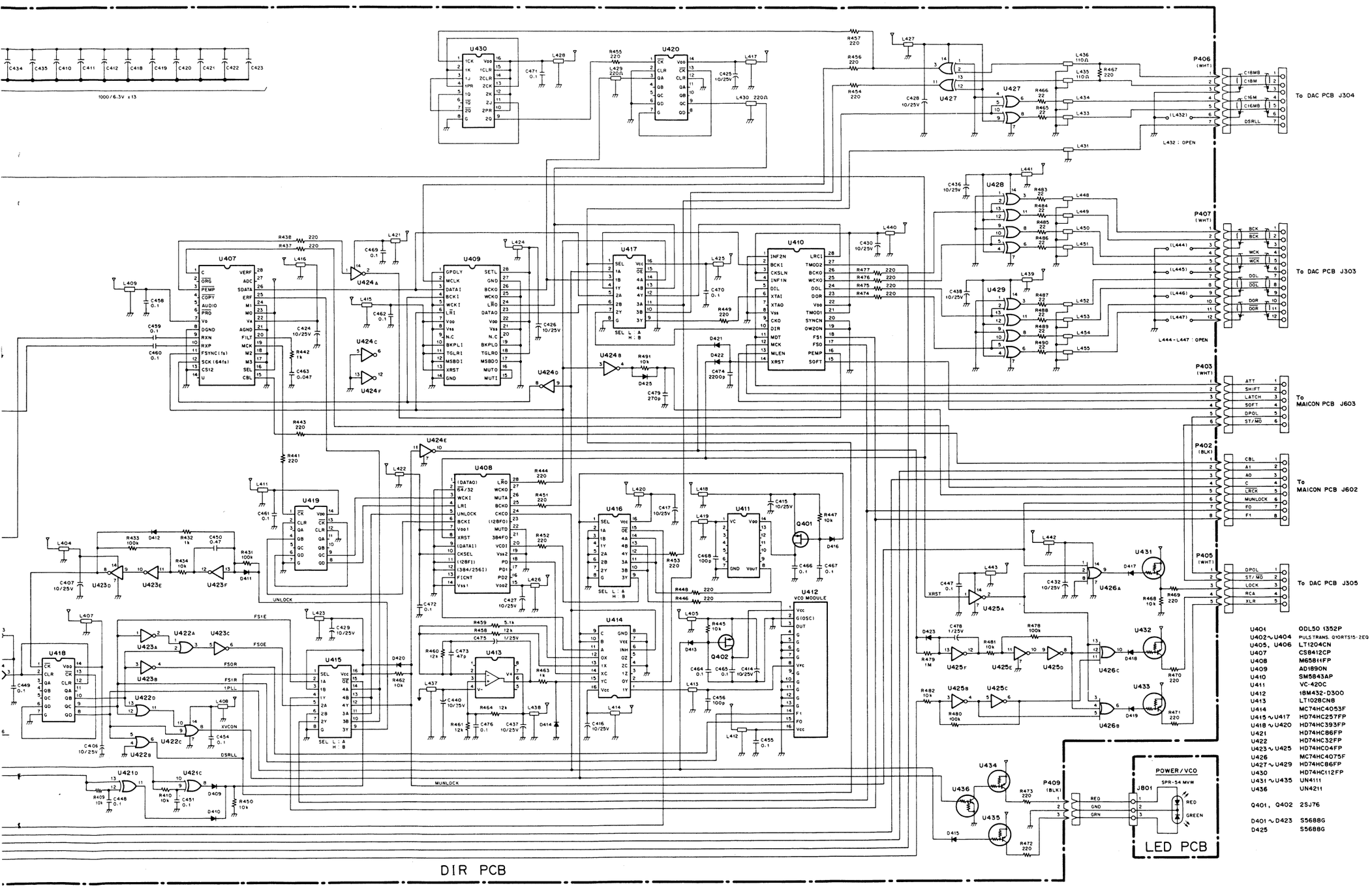

U401	ODL50 1352P
U402～U404	PULS TRANS. G10RT515-2EQ
U405, U406	LT1204CN
U407	CS8412CP
U408	M65814FP
U409	AD1890N
U410	SM5843AP
U411	VC-420C
U412	18M432-D300
U413	LT1028CN8
U414	MC74HC4053F
U415～U417	HD74HC257FP
U418～U420	HD74HC393FP
U421	HD74HC86FP
U422	HD74HC32FP
U423～U425	HD74HC04FP
U426	MC74HC4075F
U427～U429	HD74HC86FP
U430	HD74HC112FP
U431～U435	UN4111
U436	UN4211
Q401, Q402	2SJ76
D401～D423	S5688G
D425	S5688G

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INCLUDED ACCESSORIES 付属品

REF.NO.	PARTS NO.	DESCRIPTION	REMARKS
	*5700147400	OWNER'S MANUAL (JAPANESE)[J]	
	*5700147300	OWNER'S MANUAL (ENGLISH) [US,C,GE]	
	*5700147500	OWNER'S MANUAL (ENGLISH) [E]	
	*5700103500	BINDER [J,US,C,GE]	
	*5700103600	BINDER [E]	
	E0000200	ADAPTOR,BNC-RCA	
⚠	5350019700	AC CORD SET,3-WIRE OFC [J]	
⚠	5350017700	AC CORD SET,3-WIRE [US,C,GE]	
⚠	15922303	AC CORD SET,3-WIRE [E]	